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# WATER RESOURCES PUBLICATIONS OF THE U.S. GEOLOGICAL SURVEY FOR TENNESSEE, 1906-1987

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**GEOLOGY**

The Knox Group is composed of a thick sequence of limestone and dolomite of Cambrian and Ordovician age (table 1) and is present in the subsurface in the western two-thirds of the State (fig. 1). The Knox Group is not discussed in this report of East Tennessee because it is complexly folded and faulted and is locally distinct from the Knox in the Valley and Ridge, the Knox stations, the Wells Creek area, and the Highland Rim and Cumberland Plateau.

During the formation of the Valley and Ridge, the Knox Group was faulted and tilted, resulting in the formation of several parallel sets of almost vertical fractures in which no relative displacement has occurred. These joints serve as the primary avenues of vertical ground-water movement through the rocks which otherwise have low vertical permeability. Faults occur in some areas beneath the Cumberland Plateau and in parts of the southern and northwestern Highland Rim. In these areas the faults may influence the hydrology.

The configuration of the top and bottom of the Knox aquifer is shown in figure 2 and 3, respectively. Cross sections have been constructed based on geophysical logs of wells. The cross sections are presented in figure 10. These figures include hydrogeologic relations of water aquifers and wells.

**Abstract**

**Investigations Report**

**Professional Paper**

**Water-Supply Paper**

**Formation**: Top of the Knox Group is very short distance from the surface in the Valley and Ridge, the Knox stations, the Wells Creek area, and the Highland Rim and Cumberland Plateau.

**Hydrology**: The ground-water resources of the Valley and Ridge, the Knox stations, the Wells Creek area, and the Highland Rim and Cumberland Plateau are discussed.

**Geologic Description**: The Valley and Ridge, the Knox stations, the Wells Creek area, and the Highland Rim and Cumberland Plateau are described.

**Ocurrence**: The Valley and Ridge, the Knox stations, the Wells Creek area, and the Highland Rim and Cumberland Plateau are described.

**Relative Areal occurrence of the**

**References**:

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U.S. GEOLOGICAL SURVEY

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OF THE U.S. GEOLOGICAL SURVEY  
FOR TENNESSEE, 1906-1987**

**By Eva G. Baker and Renda C. Massingill**

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**U.S. GEOLOGICAL SURVEY**

**Open-File Report 87-552**



**Nashville, Tennessee  
1988**

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# **WATER RESOURCES PUBLICATIONS OF THE U.S. GEOLOGICAL SURVEY FOR TENNESSEE, 1906-1987**

**By Eva G. Baker and Renda C. Massingill**

## **ABSTRACT**

A bibliography was compiled of the water-resources investigations published by the U.S. Geological Survey, Water Resources Division, in Tennessee. The bibliography includes an alphabetical listing by author, as well as listings by general and specific areas in Tennessee. The publications are classified also by discipline and type of report: open-file reports, water-supply papers, water-resources investigations, professional papers, circulars, hydrologic investigations atlases, miscellaneous investigations maps, journal and symposium articles, water-resources bulletin articles, and water-resources data reports.

## **INTRODUCTION**

The U.S. Geological Survey, Water Resources Division, has conducted investigations in Tennessee since 1906. The investigations and activities include collection of streamflow records, ground-water levels, water-quality data, water-use inventories, and areal water-resources appraisals. The results of these investigations are published in a variety of data and interpretive reports.

This bibliography summarizes the reports published from 1906 through 1987. Updates to

the bibliography will be printed in future years as additional reports of ongoing investigations are published.

## **ORGANIZATION OF THE BIBLIOGRAPHY**

The publications are listed in alphabetical order by author. A code number has been assigned to each publication in the author's listing. The code numbers are used in four auxiliary listings to assist the reader in locating a particular publication. The auxiliary listings are:

- A listing by specific location in Tennessee (city or county).
- A listing by general location in Tennessee (East, Middle, or West Tennessee).
- A listing by discipline or interest (ground water, modeling of ground-water flow, quality of water, streamflow, flood, sediment studies, and water use).
- A listing by type of publication (bulletins, atlases, professional papers, open-file reports, water-resources investigations, water-data reports, circulars, and water-supply papers).

Some of the more recent publications listed in this bibliography may be available from the Tennessee District Office of the U.S. Geological Survey. Inquiries concerning available publications can be made by telephone (615) 736-5424.

Many of the listed publications are out of print and can be obtained only through the National Technical Information Services (NTIS) or from the Survey Text Distribution Center. These offices can be contacted as follows:

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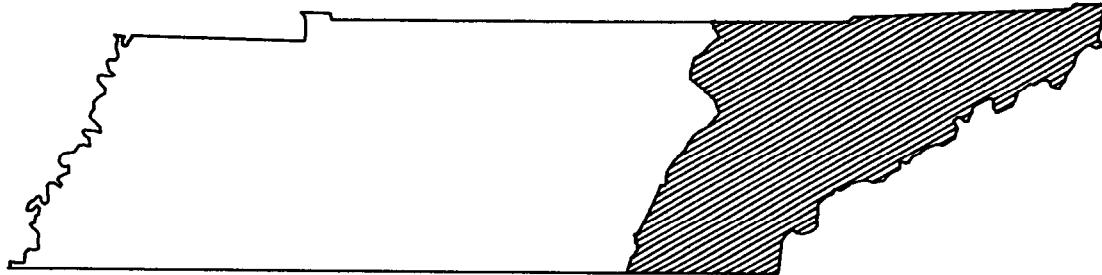
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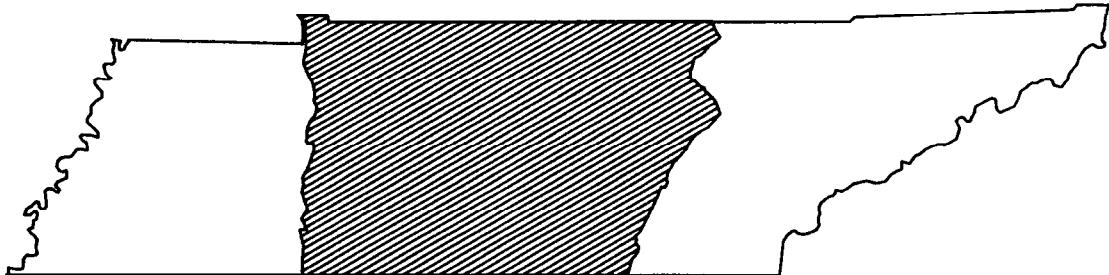
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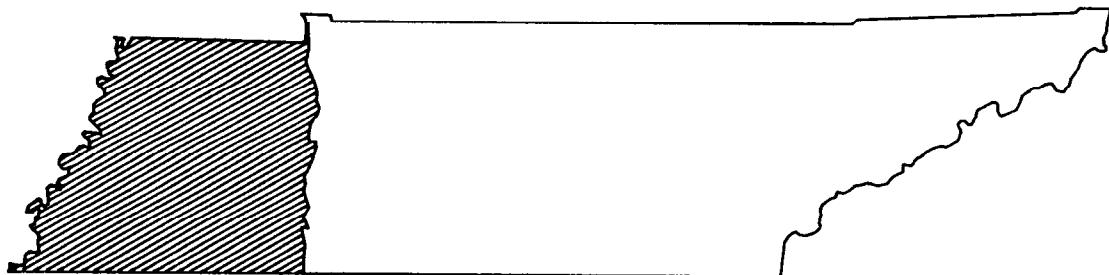
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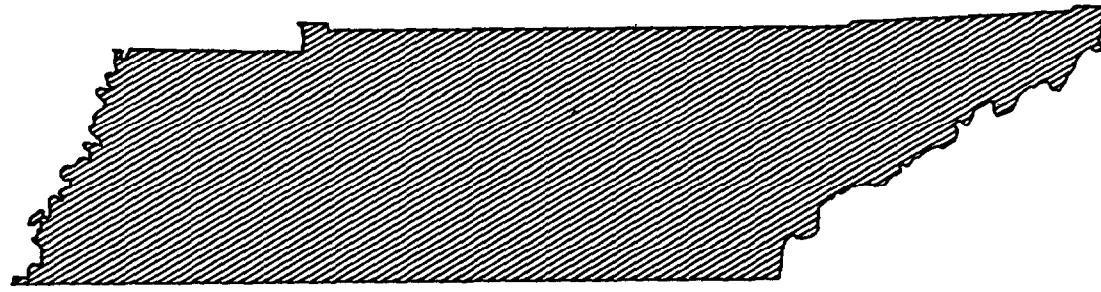
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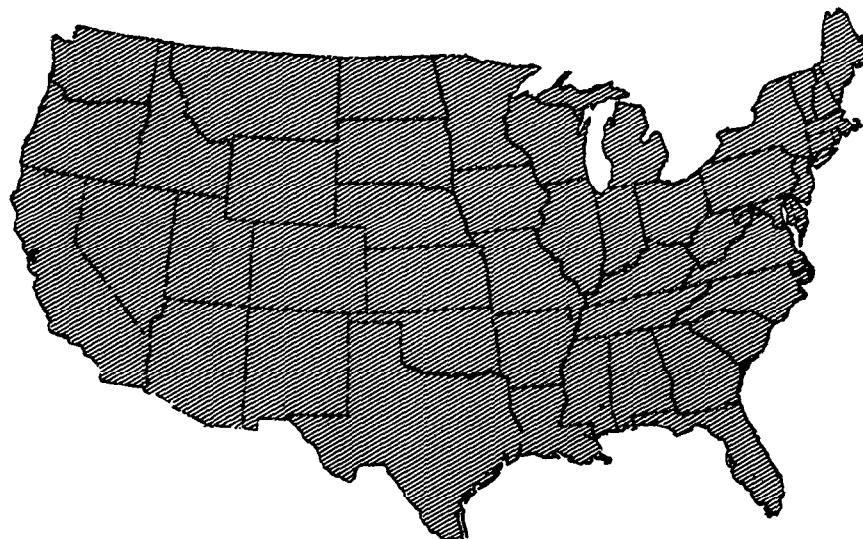
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